

Amendments to the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

- 1-43. (Canceled)
44. (Currently Amended) A method of capturing an image comprising the steps of:
- emitting light in a first location;
 - transmitting the emitted light from the first location to a second location with an optical fiber;
 - illuminating a first scene at the second location by optically scanning the transmitted light in a selected scan pattern with a first optical scanner;
 - capturing light reflected from the first scene in response to the scanned light;
 - placing a reflector within an area illuminated by the scanned light from the first scene;
 - acquiring light from the reflector;
 - transmitting the captured light from the first scene and the acquired light from the reflector to a third location remote from the second location; ~~and~~
 - at the third location, constructing the image from the transmitted captured light from the first scene responsive to the acquired light from the reflector; and
 - generating a scan frequency control signal responsive to the acquired light from the reflector, the scan frequency control signal being operable to control the scan frequency of the first optical scanner.
45. (Currently Amended) The method of claim 44 ~~further comprising steps of generating a synch signal indicative of a scanning orientation in wherein~~ generating the scan frequency control signal happens at the third location.

46. (Previously Presented) The method of claim 44 wherein transmitting the captured light and the acquired light includes transmitting the acquired and captured light through a common fiber.

47. (Currently Amended) A method of producing an image of a remote location, comprising the steps of:
transmitting light to the remote location with a first optical fiber;
illuminating the remote location by scanning the illuminating light over the remote location with a scanner;
capturing light reflected ~~for~~ from the remote location;
capturing a scan synchronization signal from the remote location;
transmitting the captured light to a second location separate from the remote location with a second optical fiber;
controlling the illuminating light scan frequency responsive to the captured scan synchronization signal; and
constructing the image from the transmitted received light.

48. (Currently Amended) The method of claim 47 ~~further including~~ wherein capturing a scan synchronization signal includes optically detecting a scanning portion of the scanner.

49. (Previously Presented) The method of claim 48 wherein optically detecting the scanning portion light includes:
capturing synchronizing light at the remote location; and
transmitting the captured synchronizing light to the second location with an optical fiber.

50. (Previously Presented) The method of claim 49 wherein the synchronizing light is a portion of the captured reflected light.

51. (Previously Presented) The method of claim 50 further comprising the step of illuminating the remote location.

52. (Currently Amended) An apparatus for remotely imaging a region, comprising:

a light source;

a first fiber having an input end coupled to the light source and an output end;

a scanner having input coupled to the fiber output end and being alignable to the region, the scanner being configured to direct light from the output end through a scan pattern ~~toward the~~ across a region;

a first optical detector optically coupled to the ~~first~~ scanner and aligned to receive light ~~from a location in the~~ indicative of the location of the scanner in the scan pattern;

a second optical detector configured to receive scanned light scattered from the region; and

a controller ~~decoding electronics~~ coupled to the first and second optical detectors, the controller ~~decoding electronics~~ being responsive to the first and second optical detectors to identify information about the region.

53. (Currently Amended) The apparatus of claim 52 wherein the ~~scanner has~~ region comprises a variable field of view.

54. (Previously Presented) The apparatus of claim 52 wherein the first optical detector is aligned to receive light directly from the scanner.

55. (Previously Presented) The apparatus of claim 52 wherein the first optical detector is responsive to light in a visible wavelength.

56. (New) The method of claim 44 wherein the first scanner comprises a single biaxial scanner.

57. (New) The method of claim 44 wherein the first scanner comprises a horizontal axis scanner and a vertical axis scanner.

58. (New) The method of claim 44 wherein the first scanner is resonant in at least one axis and the scan frequency control signal is operable to control and change the resonance frequency of the first scanner.

59. (New) The apparatus of claim 52 wherein the controller is operable to decode a bar code symbol in the region.

60. (New) The apparatus of claim 59 wherein the bar code symbol includes a two-dimensional symbol.